

OMB No. 0651-0011

Page 1 of 7

<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 293.00010102	Serial No.: 10/749,602
	Applicant(s): EMERY et al.	Confirmation No.: 8548
	Application Filing Date: Dec. 31, 2003	Group: Unassigned
	Information Disclosure Statement submitted (via facsimile) on: MARCH 9, 2003	

## U.S. PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
PL		3,663,687	5/1972	Evans			
↑		3,887,699	6/1975	Yolles			
		3,975,350	8/1976	Hudgin et al.			
		4,164,560	8/1979	Folkman et al.			
		4,180,560	12/1979	Katz et al.			
		4,326,523	4/1982	Wolf from et al.			
		4,389,330	6/1983	Ticc et al.			
		4,452,775	6/1984	Kent et al.			
		4,458,630	7/1984	Sharma et al.			
		4,568,559	2/1986	Nuwayser et al.			
		4,631,188	12/1986	Stoy et al.			
		4,708,765	11/1987	Newman et al.			
		4,709,765	12/1987	Campanell			
		4,711,782	12/1987	Okada et al.			
		4,713,249	12/1987	Schroder			
		4,756,907	7/1988	Beck et al.			
		4,767,628	8/1988	Hutchinson			
		4,863,735	9/1989	Kohn et al.			
		4,897,268	1/1990	Tice et al.			
↓		4,938,763	7/1990	Dunn et al.			
PL		5,020,421	6/1991	Podlesak			

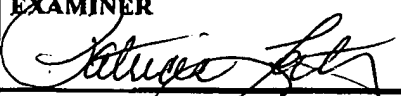
EXAMINER <i>Robert J. Lee</i>	Date Considered 7/21/05
* Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

OMB No. 0651-0011

Page 2 of 7

<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 293.00010102	Serial No.: 10/749,602
	Applicant(s): EMERY et al.	Confirmation No.: 8548
	Application Filing Date: Dec. 31, 2003	Group: Unassigned
	Information Disclosure Statement submitted (via facsimile) on: <b>MARCH 9, 2003</b>	

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
PL		5,106,617	4/1992	Federicksen et al.			
PL		5,114,719	5/1992	Sabel et al.			
		5,153,002	10/1992	McMullen			
		5,158,038	10/1992	Sheeks et al.			
		5,206,015	4/1993	Cox et al.			
		5,219,554	6/1993	Croman et al.			
		5,232,984	8/1993	Hubbell et al.			
		5,271,945	12/1993	Yoshioka et al.			
		5,311,841	5/1994	Thaxton			
		5,324,519	6/1994	Dunn et al.			
		5,339,766	8/1994	Phelps et al.			
		5,352,448	10/1994	Bowersock et al.			
		5,380,536	1/1995	Hubbell et al.			
		5,397,568	3/1995	Whitfill et al.			
		5,397,569	3/1995	Whitfill et al.			
		5,420,253	5/1995	Emery et al.			
		5,427,791	6/1995	Ahmad et al.			
		5,438,954	8/1995	Phelps et al.			
		5,444,045	8/1995	Francis et al.			
		5,534,256	7/1996	Potter et al.			
		5,538,733	7/1996	Emery et al.			
		5,569,468	10/1996	Modi et al.			
PL		5,578,314	11/1996	Cochrum et al.			

<b>EXAMINER</b> 	<b>Date Considered</b> 7/21/05
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

OMB No. 0651-0011


Page 3 of 7

<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 293.00010102	Serial No.: 10/749,602
	Applicant(s): EMERY et al.	Confirmation No.: 8548
	Application Filing Date: Dec. 31, 2003	Group: Unassigned
	Information Disclosure Statement submitted (via facsimile) on: MARCH <u>9</u> , 2003	

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
PL		5,641,745	6/1997	Ramtoola			
↑		5,807,551	9/1998	Reynolds			
		5,830,479	11/1998	Emery et al.			
		5,861,387	1/1999	Labrie et al.			
		5,902,565	5/1999	Cox et al.			
		5,906,826	5/1999	Emery et al.			
		6,027,736	2/2000	Emery et al.			
		6,432,412 B1	8/2003	Emery et al.			
		6,682,754 B1	1/2004	Emery et al.			
		2003/0036639 A1	2/2003	Emery et al.			
		2003/0064073 A1	4/2003	Emery et al.			
↓		2003/0206922 A1	11/2003	Emery et al.			
PL		2003/0211118 A1	11/2003	Emery et al.			

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
PL		CA 2,029,906 A1	9/1990	Canada				
↑		EP 287 206 A1	10/1988	Europe				
		WO 90/12591 A1	11/1990	PCT				
		WO 96/01620	1/1996	WO				
		WO 97/13531	4/1997	WO				
↓		WO 99/34667	7/1999	WO				
PL		WO 99/43349	9/1999	WO				

<b>EXAMINER</b> 	<b>Date Considered</b> 7/21/05
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 293.00010102	Serial No.: 10/749,602
	Applicant(s): EMERY et al.	Confirmation No.: 8548
	Application Filing Date: Dec. 31, 2003	Group: Unassigned
	Information Disclosure Statement submitted (via facsimile) on: MARCH <u>9</u> , 2003	

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Examiner Initial	Copy Enclosed	Document Description
PL		Banerjee-Bhatnagar et al., "Expression of Neisseria Meningitidis Iron-regulated Outer Membrane Proteins, Including a 70-Kilodalton Transferrin Receptor, and Their Potential for Use as Vaccines," <i>Infect Immun.</i> 1990 Sep; 58(9):2875-81.
↑		Bolin, C. A. et al., "Passive Immunization with Antibodies Against Iron-Regulated Outer Membrane Proteins Protects Turkeys from <i>Escherichia coli</i> Septicemia," <i>Infect Immun.</i> 1987 May; 55(5):1239-42.
		Bouchet, A. et al., "Immunological variants of the aerobactin-cloacin DF13 outer membrane protein receptor IutA among enteric bacteria," <i>Infect Immun.</i> 1994 Jul; 62(7):3017-21.
		Bragg, P. D. et al., "Organization of proteins in the native and reformed outer membrane of <i>Escherichia coli</i> ," <i>Biochim Biophys Acta.</i> 1972 Aug 9; 274(2): 478-88.
		Brogden et al., "Lysates of turkey-grown <i>Pasteurella multocida</i> : effects of solubilizing agents on the immunologic properties of membrane vesicles," <i>Am J Vet Res.</i> 1983 Mar; 44(3):428-32.
		Chart, H. et al., "Antigenic and molecular homology of the ferric enterobactin receptor protein of <i>Escherichia coli</i> ," <i>J Gen Microbiol.</i> 1985 Jun; 131(Pt 6): 1503-9.
		Choi-Kim, K. et al., "Relationship between the iron regulated outer membrane proteins and the outer membrane proteins of <i>in vivo</i> grown <i>Pasteurella multocida</i> ," <i>Vet Microbiol.</i> 1991 Jun; 28(1):75-92.
		Cleland, J. L., "Single-administration vaccines: controlled-release technology to mimic repeated immunizations," <i>Trends Biotechnol.</i> 1999 Jan; 17(1):25-29
↓		Crichton, "Inorganic Biochemistry of Iron Metabolism," Chapter 3: Microbial iron uptake and intracellular release, Ellis Horwood, pgs. 59-76 (1991).
PL		Danve et al., "Transferrin-binding proteins isolated from <i>Neisseria meningitidis</i> elicit protective and bactericidal antibodies in laboratory animals," <i>Vaccine.</i> 1993 Sep; 11(12):1214-20.

EXAMINER



Date Considered

7/21/05


\*Examiner: Initial/citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

OMB No. 0651-0011

Page 5 of 7

<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 293.00010102	Serial No.: 10/749,602
	Applicant(s): EMERY et al.	Confirmation No.: 8548
	Application Filing Date: Dec. 31, 2003	Group: Unassigned
	Information Disclosure Statement submitted (via facsimile) on: MARCH <u>9</u> , 2003	

Examiner Initial	Copy Enclosed	Document Description
PL		Erdei et al., "Lactoferrin binds to porins OmpF and OmpC in Escherichia coli," <i>Infection and Immunity</i> , 1994, Apr.;62(4):1236-1240.
↑		Gilleland, Jr. et al., "Perspectives on the potential for successful development of outer membrane protein vaccines," <i>Eur J Clin Microbiol.</i> 1987 Jun;6(3):231-3.
		Glisson, J.R. et al., "Cross-protection studies with <i>Pasteurella multocida</i> bacterins prepared from bacteria propagated in iron-depleted medium," <i>Avian Dis.</i> 1993 Oct-Dec;37(4):1074-9.
		Griffiths, E. et al., "Pathogenic <i>Escherichia coli</i> express new outer membrane proteins with growing <i>in vivo</i> ," <i>FEMS Microbiol Lett.</i> 1983;16:95-99.
		Hancock, R. E. W. et al., "Iron transport of <i>Escherichia coli</i> K-12: involvement of the colicin B receptor and of a citrate-inducible protein," <i>J Bacteriol.</i> 1976 Sep;127(3):1370-5.
		Harlow, E., et al., "Antibodies: A Laboratory Manual," Cold Spring Harbor Laboratory, Chapter 5, pp. 72-87 (1988).
		Hudson, L. et al., "Lymphokines and Cytokines," <i>Practical Immunology</i> , 3rd Ed., Blackwell Scientific Publications, London, England (1989) pages 423-441.
		Ikeda, J. S. et al., "Antigenically related iron-regulated outer membrane proteins produced by different somatic serotypes of <i>Pasteurella multocida</i> ," <i>Infect Immun.</i> 1988 Sep;56(9):2499-502.
		Kohn, J. et al., "Single-step immunization using a controlled release, biodegradable polymer with sustained adjuvant activity," <i>Journal of Immunological Methods</i> , vol. 95, pp. 31-38 (1986).
		Lu et al., "The outer membrane of <i>Pasteurella multocida</i> 3:A protects rabbits against homologous challenge," <i>Infect Immun.</i> 1991 Dec;59(12):4517-23.
		Male et al., "Advanced Immunology," Chapter 14: <i>Lymphocyte and APC Traffic</i> , pgs. 14.1 - 14.10., J.B. Lippincott Company, Philadelphia, PA (1987).
↓		Male et al., "Advanced Immunology," Chapter 11: <i>Cytokines</i> , pgs. 11.1 - 11.16., J.B. Lippincott Company, Philadelphia, PA (1991).
PL	✓	Male et al., "Advanced Immunology," Chapter 14: <i>Immune Recognition of Pathogens</i> , pgs. 14.1 - 14.15., J.B. Lippincott Company, Philadelphia, PA (1991).

EXAMINER 	Date Considered 7/2/05
---	---------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

OMB No. 0651-0011

Page 6 of 7

<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 293.00010102	Serial No.: 10/749,602
	Applicant(s): EMERY et al.	Confirmation No.: 8548
	Application Filing Date: Dec. 31, 2003	Group: Unassigned
	Information Disclosure Statement submitted (via facsimile) on: MARCH <u>9</u> , 2003	

Examiner Initial	Copy Enclosed	Document Description
PL		Malkinson, M., "The Transmission of Passive Immunity to Escherichia coli from Mother to Young in the Domestic Fowl (Glasus domesticus)," Immunology, vol. 9, pp. 311-317 (1965).
ga		Merrifield, R.B., "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide," Journal of the American Chemical Society, Vol. 85, No. 14, pp. 2149-2154 (Jul. 20, 1963).
		Merrifield, R.B., "Automated Synthesis of Peptides," Science, vol. 150, No. 3693, pp. 178-185 (Oct. 8, 1965).
		Merrifield, B., "Solid Phase Synthesis," Science, Vol. 232, pp. 341-347, (Apr. 18, 1986).
		Niemi et al., "Evaluation of Ethylene-Vinyl Acetate Copolymer as a Non-Inflammatory Alternative to Freund's Complete Adjuvant in Rabbits," Laboratory Animal Science, Vol. 35, No. 6, pp. 609-612 (Dec. 1985).
		Patterson et al., "Antibody Production and Transfer to Egg Yolk in Chickens," The Journal of Immunology, vol. 89, pp. 272-278 (1962).
		Ogunnariwo, J. A. et al., "Evidence for non-siderophore-mediated acquisition of transferrin-bound iron by <i>Pasteurella multocida</i> ," Microb Pathog. 1991 Jul;11(1):47-56.
		Radomsky et al., "Controlled Vaginal Delivery of Antibodies in the Mouse," Biology of Reproduction, Vol. 47, No. 1, pp. 133-140 (Jul. 1992).
		Rimler, R. B., "Cross-protection factor(s) of <i>Pasteurella multocida</i> : passive immunization of turkeys against fowl cholera caused by different serotypes," Avian Dis. 1987 Oct-Dec;31(4):884-7.
		Rimler, R. B. et al., "Solubilization of membrane-associated cross-protection factor(s) of <i>Pasteurella multocida</i> ," Avian Dis. 1989 Apr-Jun;33(2):258-63.
		Rimler, R. B., "Partial purification of cross-protection factor(s) from <i>Pasteurella multocida</i> ," Avian Dis. 1994 Oct-Dec;38(4):778-89.
PL		Roitt, I. M. et al., "16 - Immunity to Viruses, Bacteria and Fungi," and "17 - Immunity to Protozoa and Worms," Immunology, 2 <sup>nd</sup> Ed., C.V. Mosby Company, St. Louis, MO (1989) pages 16.1-17.21.

EXAMINER



Date Considered

7/21/05

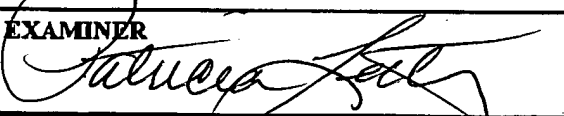
\*Examiner's Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

OMB No. 0651-0011

Page 7 of 7

<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 293.00010102	Serial No.: 10/749,602
	Applicant(s): EMERY et al.	Confirmation No.: 8548
	Application Filing Date: Dec. 31, 2003	Group: Unassigned
	Information Disclosure Statement submitted (via facsimile) on: MARCH 9, 2003	

Examiner Initial	Copy Enclosed	Document Description
R		Rose et al., "Immunoglobulins in the Egg, Embryo and Young Chick," Development and Comparative Immunology, vol. 5, No. 1, pp. 15-20 (1981).
a		Snipes K. P., "Plasma- and iron-regulated expression of high molecular weight outer membrane proteins by <i>Pasteurella multocida</i> ," <i>Am J Vet Res.</i> 1988 Aug; 49(8):1336-8.
		Stuart et al., "Iron-suppressible production of hydroxamate by <i>Escherichia coli</i> isolates," <i>Infect Immun.</i> 1982 Jun;36(3):870-5.
		Truscott et al., "Demonstration of an outer membrane protein with antiphagocytic activity from <i>Pasteurella multocida</i> of avian origin," <i>Infect Immun.</i> 1988 Jun; 56(6):1538-44.
		Ulmer et al., "Heterologous Protection Against Influenza by Injection of DNA Encoding a Viral Protein," <i>Science</i> , vol. 259, No. 5102, pp. 1745-1749 (Mar. 19, 1993).
		Williams, P. et al., "Novel aerobactin receptor in <i>Klebsiella pneumoniae</i> ," <i>J Gen Microbiol.</i> 1989 Dec;135(Pt 12):3173-3181.
		Yearout, D. R., "Prevention and treatment of aspergillosis by vaccination: a new protocol," <i>Proceedings of the 1988 Annual Meeting of the Association of Avian Veterinarians</i> . Association of Avian Veterinarians, Boca Raton, FL (1988), pages 139-144.
✓		Zhao, G. et al., "Expression of iron-regulated outer membrane proteins by porcine strains of <i>Pasteurella multocida</i> ," <i>Can J Vet Res.</i> 1995 Jan;59(1):46-50.
PL		Visca et al., "Siderophore production by <i>Salmonella</i> species isolated from different sources," <i>FEMS Microbiol Lett.</i> 1991 Apr 15;63(2-3):225-31.

EXAMINER 	Date Considered 7/21/02
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

OMB No. 0651-0011

Page 1 of 1

<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 293.00010102	Serial No.: 10/749,602
	Applicant(s): Emery et al.	Confirmation No.: 8548
	Application Filing Date: Dec. 31, 2003	Group: 1654
	Information Disclosure Statement submitted via facsimile on: <b>AUGUST 16, 2004</b>	

## U.S. PATENT DOCUMENTS

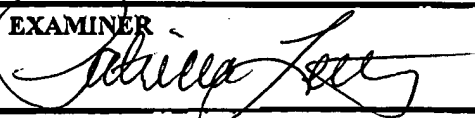
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
PL	4,003,792	01/18/77	Mill et al.			

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	NONE						

## OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Document Description
	NONE

<b>EXAMINER</b> 	<b>Date Considered</b> 7/21/05
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	